## IAP6 Rec'd PCT/PTO 13 FEB 2006



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT Application of

Mills

Group Art Unit: Unknown

U.S. Serial No.: 10/552,585

Examiner: Unknown

Filed: October 12, 2005

Att. Docket No.: 62226-PULSED

For: PLASMA REACTOR AND PROCESS FOR PRODUCING LOWER-ENERGY

**HYDROGEN SPECIES** 

SECULLARY

February 13, 2006

## NEW INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Attached are PTO/SB/O8A and B forms listing the enclosed documents. Copies of the enclosed documents are attached to the presently filed Information Disclosure Statement and/or to the Attachments to the Response filed herewith.

Applicant advises the Secret Committee that took over examination of his pending applications relating to his lower-energy hydrogen technology that Applicant has made a concerted effort to review those applications for documents cited therein and to make those documents of record in each case. Because, however, Applicant's lower-energy hydrogen applications were consolidated under a single Examiner, Bernard Eng-Kie Souw, Applicant believes that the Committee should already be familiar with the totality of these documents. Nonetheless, for purposes of completeness and ensuring that all cited documents have been brought to the PTO's attention, Applicant provides the following list of applications relating to his lower-energy hydrogen technology:

Application No. 10/552,585 Page 2 of 3

U.S. Ser. No.	Filing Date
10/552,585	10/12/05
10/893,280	7/19/04
10/513,026	11/01/04
10/494,571	5/6/04
10/469,913	9/5/2003
10/331,725	12/31/02
10/319,460	11/27/02
09/669,877	9/27/00
09/813,792	3/22/01
09/513,768	2/25/00
09/678,730	10/4/00
09/362,693	7/29/99
09/181,180	10/28/98
09/225,687	1/6/99
09/110,717	7/7/98
09/110,694	7/7/98
09/501,622	2/9/00
09/501,621	2/9/00
09/111,003	7/7/98
09/111,160	7/7/98
09/110,678	7/7/98
09/009,455	1/20/98
09/009,294	1/20/98
09/008,947	1/20/98
09/009,837	1/20/98
08/822,170	4/21/97
08/467,051	6/6/95
08/467,911	6/6/95
08/416,040	4/3/95
08/107,357	8/16/93
08/075,102	6/11/93
07/825,845	1/28/92
07/626,496	12/12/90
07/345,628	4/28/89
07/341,733	4/21/89

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If necessary, please accept this Information Disclosure Statement under Rule 97(c) and charge the requisite Rule 17(p) fee to our Deposit Account No. 50-0687 under Order No. **62-226** for which purposes this paper is submitted in duplicate.

This Information Disclosure Statement is intended to fully comply with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

Consideration of the foregoing remarks and enclosures, including return of a copy of the attached PTO/SB/08A and B forms with the Examiner's initials in the left column per MPEP § 609 and an early action on the merits of this application, are earnestly solicited.

Respectfully submitted,
Manelli Denison & Selter PLLC

Ву

Jeffrey S. Melcher Reg. No.: 35,950

Tel. No.: (202) 261-1045 Fax. No.: (202) 887-0336

Customer No. 20736

Substitute for	form 1449A/PTO			Complete if Known		
				Application Number	10/552,585	
INFO	RMATION	DIS	SCLOSURE	Filing Date	October 12, 2005	
STA	STATEMENT BY APPLICANT			First Named Inventor	Mills	
				Group Art Unit	Unknown	
(use as many sheets as necessary)			s necessary)	Examiner Name	Unknown	
Sheet		of	71	Attorney Docket Number	62226-PULSED	

U.S. PATENT DOCUMENTS									
Examiner Initials*	Cite	U.S. Paten	t Document	Name of Patentee of Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where			
muais	NO.	Number	Kind Code <sup>w</sup> (if known)	of Cited Document	MM-DD-YYYY	Relevant Passages or Relevant Figures Appear			
		1,001,589		Hatfield	08-23-1911				
		2,708,656		Fermi	05-17-1955				
		3,253,884		Jung, et al	05-31-1966				
		3,297,484		Niedrach	01-10-1967				
		3,300,345		Lyons	01-24-1967				
		3,359,422		Pollock	12-19-1967				
		3,377,265		Caeser	04-09-1968				
		3,448,035		Serfass	06-03-1969				
		3,669,745		Beccu	06-13-1972				
		3,701,632		Lovelock	10-31-1972				
		3,755,128		Herwig	08-28-1973				
		3,816,192		Brower	06-11-1974				
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		3,917,520		Katz	11-04-1975				
		4,155,712		Taschek	05-22-1979				
		4,265,720		Winstel	05-05-1981				
		4,274,938		Schulten	06-23-1981				
		4,327,071	,	Chiu	04-27-1982				
		4,337,126		Gilligan, III et al	06-29-1982				
		4,353,871		Bartilt, et al	10-12-1982				
		4,487,670		Bellanger	12-11-1984				
		4,512,966		Nelson	04-23-1985				
		4,568,568		Asano	02-04-1986				
		4,664,904		Wolfrum	05-12-1987				

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Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for	INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known			
				Application Number	10/552,585
INFO	RMATION	DI	SCLOSURE	Filing Date	October 12, 2005
STA	TEMENT B	Y A	APPLICANT	First Named Inventor	Mills
				Group Art Unit	Unknown
(use as many sheets as necessary)			as necessary)	Examiner Name	Unknown
Sheet	2_	of	7)	Attorney Docket Number	62226-PULSED

U.S. PATENT DOCUMENTS									
Examiner Cite No. 1	Cite No. 1	U.S. Paten	t Document  Kind Code <sup>w</sup>	Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures			
		Number	(if known)			Appear			
		4,702,894		Cornish	10-27-1987				
		4,737,249		Shepard Jr.	04-12-1988				
		4,774,065		Penzorn	09-27-1988				
		4,808,286		Angelo, II	02-28-1989				
		4,923,770		Grasselli	05-08-1990				
		4,968,395		Pavelle	11-06-1990				
		4,957,727		Bogdanovic	09-18-1990				
		4,986,887		Gupta	01-22-1991				
		5,215,729		Buxbaum	06-01-1993				
		5,273,635		Gernert	12-28-1993				
		5,318,675		Patterson	06-07-1994				
		5,372,688		Patterson	12-13-1994				
		5,593,640		Long, et al	01-14-1997				
		5,789,744		Spence, et al	08-04-1998				
		6,024,935		Mills, et al	02-15-2000	71-4			
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Examiner	Date	1	
Signature	Considered		

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Substitute	Substitute for form 1449A/PTO		Compl	ete if Known	
				Application Number	10/552,585
INF	ORMATION	DI	SCLOSURE	Filing Date	October 12, 2005
STA	ATEMENT B	SY A	APPLICANT	First Named Inventor	Mills
				Group Art Unit	Unknown
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Sheet	3	of	91	Attorney Docket Number	62226-PULSED

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Examiner	Cite	F	oreign Patent Doc	ument		Date of Publication of	Pages, Columns, Lines,	
Initials* No. 1	No.	Office <sup>3</sup>		Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	
								T <sup>6</sup>
		wo	90/10935	A1	Pons	09-20-1990		
		wo	90/14668	A2	Cravens	11-29-1990		
		wo	91/01036	A1	Dufour	01-24-1991		
		wo	91/08573	A1	Bush	06-13-1991		
		wo	93/17437	A1	Bush	09-02-1993		
		wo	94/10688	A1	Dufour	05-11-1994		
		wo	94/14163	A1	McKubre	06-23-1994		
		wo	94/15342	A1	McKubre	07-07-1994		
		wo	95/20816	A1	Piantelli	08-03-1995		
		wo	00/25320	A1	Davies	05-04-2000		
		wo	02/08787	A2	De Geus	01-31-2002		
		EP	0 392 325	А3	Semiconductor Energy	10-17-1990	·	
		EP	0 395 066	A2	Matsushita Electric Ind.	10-31-1990		
		JP	53-134792		Ind. Res. Inst. Of	11-24-1978		
		JP	56-136644		Hitachi	03-28-1980		
		GB	2 343 291		Lloyd Wise, Tregear &	05-13-2000	·	

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Examiner	Date	]
Signature	Considered	

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Substitute f	INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Complete if Known			
	outsitute for form 1115.41 To			Application Number	10/552,585
INF	ORMATION	l DIS	SCLOSURE	Filing Date	October 12, 2005
STA	ATEMENT E	BY A	APPLICANT	First Named Inventor	Mills
				Group Art Unit	Unknown
(use as many sheets as necessary)			as necessary)	Examiner Name	Unknown
Sheet	4	of	71	Attorney Docket Number	62226-PULSED

				FOREI	GN PATENT DOCU	JMENTS		
Examiner	Cite	Foreign Patent Document			***	Date of Publication of	Pages, Columns, Lines,	
Initials*	No. 1	Office <sup>3</sup>	Number⁴	Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	
							T <sup>6</sup>	
		wo	90/13126	A1	Mills	11-01-1990		
		wo	92/10838	A1	Mills	06-25-1992		
		wo	94/29873	A2	Mills	12-22-1994		
		wo	96/42085	A2	Mills	12-27-1996		
		wo	99/05735	A1	Mills	03-04-1999		
		wo	99/26078	A1_	Mills	5-27-1999		<u> </u>
		wo	99/34322	A1	Mills	7-8-1999		
		wo	99/35698	А3	Mills	07-15-1999		
		wo	00/07931	A1_	Mills	02-17-2000		<u> </u>
		wo	00/07932	A2	Mills	2-17-2000		<u> </u>
		wo	01/095944	A2	Mills	12-20-2001		<u> </u>
		wo	01/18948	A1	Mills	3-15-2001		
		wo	01/21300	A2	Mills	03-29-2001		
		wo	01/22472	A2	Mills	3-29-2001		
		wo	01/70627	A3	Mills	08-27-2001		
		wo	02/087291	A2	Mills	10-31-2002		
		wo	02/088020	A2	Mills	11-7-2002		

Examiner Signature	Date Considered	
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute	for form 1449A/PTO			Complete if Known		
				Application Number	10/552,585	
INF	ORMATION	DI	SCLOSURE	Filing Date	October 12, 2005	
ST	ATEMENT B	BY A	APPLICANT	First Named Inventor	Mills	
				Group Art Unit	Unknown	
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Sheet	5	of	71	Attorney Docket Number	62226-PULSED	

				FOREI	GN PATENT DOC	UMENTS		
	Cite	Foreign Patent Document				Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant	
		Office <sup>3</sup>	Number⁴	Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	MM-DD-YYYY	Passages or Relevant Figures Appear	
								$ T^6 $
		wo	02/16956	A1	Mills	2-28-2002		
		wo	03/093173	A2	Mills	11-13-2003		<u> </u>
		wo	03/066516	A2	Mills	8-14-2003		<u> </u>
<del> </del>	ļ	wo	04/092058	A2	Mills	10-28-2004		<u> </u>
	<u> </u>	wo	05/041368	A2	Mills	10-6-2005		
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Substitute	e for form 1449B/PTO		-	Complete if Known		
	, , , , , , , , , , , , , , , , , , , ,			Application Number	10/552,585	
INI	FORMATION	DISC	CLOSURE	Filing Date	October 12, 2005	
ST	ATEMENT E	BY AF	PPLICANT	First Named Inventor	Mills	
				Group Art Unit	Unknown	
	(use as many she	eets as n	ecessary)	Examiner Name	Unknown	
Sheet	6	of	71	Attorney Docket Number	62226-PULSED	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²					
		114. R.L. Mills, K. Akhtar, B. Dhandapani, "Tests of Features of Field-Acceleration Models for the Extraordinary Selective H Balmer α Broadening in Certain Hydrogen Mixed Plasmas," Journal of Applied Physics, submitted. ( <i>Web Publication Date: June 24, 2005.</i> )						
	113. R.L. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States," New Journal of Physics, submitted. (Web Publication Date: June 9, 2005.)							
		112. R. L. Mills, J. He, Y. Lu, Z, M. Nansteel, Chang, B. Dhandapani, "Comprehensive Identification and Potential Applications of New States of Hydrogen," Central European Journal of Physics, submitted. (Web Publication Date: May 9, 2005.)						
		111. R. L. Mills, J. He, Z, Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrogen Species H <sup>-</sup> (1/4) and H <sub>2</sub> (1/4) as a New Power Source," New J. Chem., submitted. (Web Publication Date: May 6, 2005.)						
		110. R. L. Mills, J. He, Z, Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source," Prepr. Pap.—Am. Chem. Soc., Div. Fuel Chem. 2005, 50(2). (Web Publication Date: April 22, 2005.)  109. R. L. Mills, M. Nansteel, J. He, B. Dhandapani, "Low-Voltage EUV and Visible Light Source Due to Catalysis of Atomic Hydrogen," J. Plasma Physics, submitted. (Web Publication Date: April 15, 2005.)						
		108. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy System, submitted. (Web Publication Date: April 4, 2005.)						
Examiner Signature		Date Considered  f reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if						

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

				<u> </u>	TOTOBTOOD (Modified	
Substitute	e for form 1449B/PTO			Complete if Known		
				Application Number	10/552,585	
INI	FORMATION	l DI	SCLOSURE	Filing Date	October 12, 2005	
S1	TATEMENT E	BY A	APPLICANT	First Named Inventor	Mills	
				Group Art Unit	Unknown	
	(use as many she	ets a	s necessary)	Examiner Name	Unknown	
Sheet	7	of	<i>)</i> /	Attorney Docket Number	62226-PULSED	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. 1						
		107. R. L. Mills, "Maxwell's Equations and QED: Which is Fact and Which is Fiction," Physica Scripta, submitted. (Web Publication Date: October 28, 2004.)					
		106. R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," Foundations of Science, submitted. (Web Publication Date: October 28, 2004.)					
		105. J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," J. Appl. Physics, submitted. (Web Publication Date: September 7, 2004.)					
		104. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Advances in Hydrogen Energy, 228th American Chemical Society National Meeting, August 22–26, 2004, Philadelphia, PA.					
		103. R. L. Mills, Dhandapani, W. Good, J. He, "New States of Hydrogen Isolated from K <sub>2</sub> CO <sub>3</sub> Electrolysis Gases," Electrochim. Acta, submitted. ( <i>Web Publication Date: April 28, 2004</i> .)					
		102. R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One-through Twenty-Electron Atoms," Phys. Essays, submitted. (Web Publication Date: April 22, 2004.)					
		101. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA.					
Examiner Signature		Date Considered					

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

					· Or OBTOOD (Modified)	
Substitute for form 1449B/PTO				Complete if Known		
Substitute for form 1440001 10				Application Number	10/552,585	
INF	FORMATION	DISC	CLOSURE	Filing Date	October 12, 2005	
STATEMENT BY APPLICANT				First Named Inventor	Mills	
				Group Art Unit	Unknown	
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Sheet	8	of	71	Attorney Docket Number	62226-PULSED	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	and the state of t						
		100. R. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, submitted. (Web Publication Date: Nov. 17, 2003.)						
		99. R. L. Mills, Y. Lu, B. Dhandapani, "Spectral Identification of H₂(1/2)," submitted.						
		98. R. L. Mills, Y. Lu, J. He, M. Nansteel, P. Ray, X. Chen, A. Voigt, B. Dhandapani, "Spectral Identification of New States of Hydrogen," New Journal of Chemistry, submitted. (Web Publication Date: Nov. 18, 2003.)						
		97. R. L. Mills, P. Ray, B. Dhandapani, "Evidence of an Energy Transfer Reaction Between Atomic Hydrogen and Argon II or Helium II as the Source of Excessively Hot H Atoms in RF Plasmas," Journal of Plasma Physics, in press. (Web Publication Date: Sept. 26, 2003.)						
	,	96. J. Phillips, C.K. Chen, R. L. Mills, "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," Spectrochimica Acta Part B: Atomic Spectroscopy, submitted. (Web Publication Date: Sept. 12, 2003.)						
	95. R. L. Mills, P. Ray, B. Dhandapani, "Excessive Balmer α Line Broadening of Water-Vapor Capacitively-Coupled RF Discharge Plasmas" IEEE Transactions of Plasma Science, submitted. (Web Publication Date: Aug. 18, 2003.)							
		94. R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," Physics Essays, in press. (Web Publication Date: Aug. 6, 2003.)						
Examiner Signature		Date Considered  f reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if						

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					Application Number	10/552,585	
INI	FORM	MATION	DIS	SCLOSURE	Filing Date	October 12, 2005	
ST	ATE	MENT B	YA	APPLICANT	First Named Inventor	Mills	
(use as many sheets as necessary)					Group Art Unit	Unknown	
					Examiner Name	Unknown	
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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
		93. R. L. Mills, P. Ray, M. Nansteel, J. He, X. Chen, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction Forms a New State of Hydrogen," Doklady Physical Chemistry, submitted.						
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		89. R. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Hydrogen Plasmas Generated Using Certain Group I Catalysts Show Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride," Fizika A, submitted						
	88. R. Mills, J. Sankar, A. Voigt, J. He, P. Ray, B. Dhandapani, "Role of Atomic Hydroge Density and Energy in Low Power CVD Synthesis of Diamond Films," Thin Solid Films 478, (2005) 77–90. (Web Publication Date: Dec. 22, 2003.)							
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Examiner Signature		Date Considered						

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INI	FORMATION	DI:	SCLOSURE	Filing Date	October 12, 2005		
ST	ATEMENT E	BY A	APPLICANT	First Named Inventor	Mills		
				Group Art Unit	Unknown		
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		86. R. L. Mills, P. Ray, J. He, B. Dhandapani, M. Nansteel, "Novel Spectral Series from Helium-Hydrogen Evenson Microwave Cavity Plasmas that Matched Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," European Journal of Physics, submitted. (Web Publication Date: April 24, 2003.)	
		85. R. L. Mills, P. Ray, R. M. Mayo, "Highly Pumped Inverted Balmer and Lyman Populations," New Journal of Physics, submitted	
		84. R. L. Mills, P. Ray, J. Dong, M. Nansteel, R. M. Mayo, B. Dhandapani, X. Chen, "Comparison of Balmer $\alpha$ Line Broadening and Power Balances of Helium-Hydrogen Plasma Sources," Braz. J. Phys., submitted. ( <i>Web Publication Date: March 12, 2003.</i> )	
		83. R. Mills, P. Ray, M. Nansteel, R. M. Mayo, "Comparison of Water-Plasma Sources of Stationary Inverted Balmer and Lyman Populations for a CW HI Laser," J. Appl. Spectroscopy, in preparation	
		82. R. Mills, J. Sankar, P. Ray, J. He, A. Voigt, B. Dhandapani, "Synthesis and Characterization of Diamond Films from MPCVD of an Energetic Argon-Hydrogen Plasma and Methane," J. of Materials Research, submitted. (Web Publication Date: May 7, 2003.)	
		81. R. Mills, P. Ray, B. Dhandapani, W. Good, P. Jansson, M. Nansteel, J. He, A. Voigt, "Spectroscopic and NMR Identification of Novel Hydride Ions in Fractional Quantum Energy States Formed by an Exothermic Reaction of Atomic Hydrogen with Certain Catalysts," European Physical Journal: Applied Physics, 28, (2004), 83–104. (Web Publication Date: Feb. 21, 2003.)	
		80. R. L. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Annales de la Fondation Louis de Broglie, submitted. (Web Publication Date: Jan. 27, 2003.)	
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		79. R. Mills, J. He, B. Dhandapani, P. Ray, "Comparison of Catalysts and Microwave Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," Canadian Journal of Physics, submitted			
		78. R. L. Mills, P. Ray, X. Chen, B. Dhandapani, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Molecular Hydrogen", J. of the Physical Society of Japan, submitted. (Web Publication Date: Sept. 9, 2002.)			
		77. J. Phillips, R. L. Mills, X. Chen, "Water Bath Calorimetric Study of Excess Heat in 'Resonance Transfer' Plasmas," J. Appl. Phys., Vol. 96, No. 6, (2004) 3095–3102. (Web Publication Date: June 16, 2003.)			
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		75. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Novel Liquid-Nitrogen-Condensable Molecular Hydrogen Gas," Acta Physica Polonica A, submitted. ( <i>Web Publication Date: Oct. 29, 2002.</i> )			
74. R. L. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, B. Dhandapani, J. Phillip "Spectroscopic Study of Unique Line Broadening and Inversion in Low Pressu Microwave Generated Water Plasmas," Journal of Plasma Physics, in press. (We Publication Date: June 18, 2003.)					
		73. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Energetic Helium-Hydrogen Plasma Reaction," AIAA Journal, submitted. (Web Publication Date: July 26, 2002.)			
Examiner Signature		Date Considered  if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if			

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ST	ATEMENT B	SY A	APPLICANT	First Named Inventor	Mills			
				Group Art Unit	Unknown			
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Sheet	12	of	71	Attorney Docket Number	62226-PULSED			

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		72. R. L. Mills, M. Nansteel, P. C. Ray, "Bright Hydrogen-Light and Power Source due to a Resonant Energy Transfer with Strontium and Argon Ions," Vacuum, submitted.	
		71. R. L. Mills, P. Ray, B. Dhandapani, J. Dong, X. Chen, "Power Source Based on Helium-Plasma Catalysis of Atomic Hydrogen to Fractional Rydberg States," Contributions to Plasma Physics, submitted.	
		70. R. Mills, J. He, A. Echezuria, B Dhandapani, P. Ray, "Comparison of Catalysts and Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," The European Physical Journal Applied Physics, submitted. (Web Publication Date: Sept. 2, 2002.)	
		69. R. L. Mills, J. Sankar, A. Voigt, J. He, B. Dhandapani, "Spectroscopic Characterization of the Atomic Hydrogen Energies and Densities and Carbon Species During Helium-Hydrogen-Methane Plasma CVD Synthesis of Diamond Films," Chemistry of Materials, Vol. 15, (2003), pp. 1313–1321. (Web Publication Date: Dec. 31, 2002.)	
		68. R. Mills, P. Ray, R. M. Mayo, "Stationary Inverted Balmer and Lyman Populations for a CW HI Water-Plasma Laser," IEEE Transactions on Plasma Science, submitted. (Web Publication Date: Aug. 16, 2002.)	
		67. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Extreme Ultraviolet Spectroscopy of Helium-Hydrogen Plasma," J. Phys. D, Vol. 36, (2003), pp. 1535–1542. (Web Publication Date: July 17, 2002.)	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)					Filing Date	October 12, 2005	
					First Named Inventor	Mills	
					Group Art Unit	Unknown	
					Examiner Name	Unknown	
Sheet	13	c	of	71	Attorney Docket Number	62226-PULSED	

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		65. R. Mills, P. Ray, R. "Spectroscopic Evidence for Highly Pumped Balmer and Lyman Populations in a Water-Plasma," J. of Applied Physics, submitted. (Web Publication Date: Sept. 18, 2002.)	
		64. R. L. Mills, J. Sankar, A. Voigt, J. He, B. Dhandapani, "Low Power MPCVD of Diamond Films on Silicon Substrates," Journal of Vacuum Science & Technology A, submitted. (Web Publication Date: June 26, 2002.)	
		63. R. L. Mills, X. Chen, P. Ray, J. He, B. Dhandapani, "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry," Thermochimica Acta, Vol. 406, Issue 1–2, (2003), pp. 35–53. (Web Publication Date: June 25, 2002.)	
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Examiner Signature		Date Considered	

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Sheet	14	of	71	Attorney Docket Number	62226-PULSED	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
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		58. R. L. Mills, "Classical Quantum Mechanics," Physics Essays, Vol. 16, (2003) 433-498. (Web Publication Date: May 23, 2002.)	
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		56. R. M. Mayo, R. Mills, "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications," 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), pp. 1–4. (Web Publication Date: March 28, 2002.)	
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		52. R. Mills and M. Nansteel, P. Ray, "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions," New Journal of Physics, Vol. 4, (2002), pp. 70.1–70.28. (Web Publication Date: October, 2002, when it became available on the New Journal of Physics website.)						
		51. R. Mills, P. Ray, R. M. Mayo, "CW HI Laser Based on a Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Group I Catalysts," IEEE Transactions on Plasma Science, Vol. 31, No. 2, (2003), pp. 236–247. (Web Publication Date: Feb. 4, 2002.)						
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		46. R. L. Mills, P. Ray, "Stationary Inverted Lyman Population and a Very Stable Novel Hydride Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Catalysts," Opt. Mater, in press.					
		45. R. L. Mills, J. He, P. Ray, B. Dhandapani, X. Chen, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride as the Product of a Catalytic Helium-Hydrogen Plasma Reaction," Int. J. Hydrogen Energy, Vol. 28, No. 12, (2003), pp. 1401–1424. (Web Publication Date: April 15, 2002.)					
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		43. R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen," New Journal of Physics, www.njp.org, Vol. 4, (2002), pp. 22.1–22.17. (Web Publication Date: Dec. 27, 2001.)					
	-	42. R. L. Mills, P. Ray, "A Comprehensive Study of Spectra of the Bound-Free Hyperfine					
		Levels of Novel Hydride Ion $H^-(1/2)$ , Hydrogen, Nitrogen, and Air," Int. J. Hydrogen Energy, Vol. 28, No. 8, (2003), pp. 825–871. (Web Publication Date: Nov. 14, 2001.)					
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		40. R. M. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications," IEEE Transactions on Plasma Science, August, (2002), Vol. 30, No. 4, pp. 1568–1578. (Web Publication Date: Nov. 12, 2001.)	
		39. R. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by an Exothermic Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," J. Phys. Chem. A, submitted. (Web Publication Date: Nov. 13, 2001.)	
		38. R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis," Electrochimica Acta, Vol. 47, No. 24, (2002), pp. 3909–3926. (Web Publication Date: June 13, 2002.)	
		37. R. L. Mills, P. Ray, B. Dhandapani, R. M. Mayo, J. He, "Comparison of Excessive Balmer $_{\alpha}$ Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts," J. of Applied Physics, (2002), Vol. 92, No. 12, pp. 7008–7022. (Web Publication Date: Oct. 9, 2002.)	
		36. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Emission Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen Formed by a Catalytic Helium-Hydrogen Plasma Reaction," Vacuum, submitted. (Web Publication Date: Oct. 9, 2001.)	
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				Group Art Unit	Unknown	
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		34. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen," J. of Quantitative Spectroscopy and Radiative Transfer, in press. (Web Publication Date: Oct. 9, 2001.)					
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		22. R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Global Foundation, Inc. Orbis Scientiae entitled <i>The Role of Attractive and Repulsive Gravitational Forces in Cosmic Acceleration of Particles The Origin of the Cosmic Gamma Ray Bursts</i> , (29th Conference on High Energy Physics and Cosmology Since 1964) Dr. Behram N. Kursunoglu, Chairman, December 14-17, 2000, Lago Mar Resort, Fort Lauderdale, FL, Kluwer Academic/Plenum Publishers, New York, pp. 243–258. ( <i>Presented at the conference on Dec. 15, 2000; Web Publication Date: May 17, 2001.</i> )					
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		11. R. Mills, M. Nansteel, and Y. Lu, "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance," Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 309–326. (Web Publication Date: June 27, 2000.)				
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		4. Mills, R., Good, W., "Fractional Quantum Energy Levels of Hydrogen," Fusion Technology, Vol. 28, No. 4, November, (1995), pp. 1697–1719. (Web Publication Date: Nov. 1, 2001.)	
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		Boniface, et. al. "Calorimetry for a Ni/K <sub>2</sub> CO <sub>3</sub> Cell." AECL Research, June 1994.	

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STATEMENT BY APPLICANT				First Named Inventor	Mills		
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Substitute for for	m 1449B/PTO			Complete if Known			
				Application Number	10/552,585		
INFOF	RMATION	DIS	SCLOSURE	Filing Date	October 12, 2005		
			PPLICANT	First Named Inventor	Mills		
				Group Art Unit	Unknown		
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Sheet	35	of	71	Attorney Docket Number	62226-PULSED		

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Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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xaminer nitials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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				Application Number	10/552,585		
INFOF	RMATION	DI	SCLOSURE	Filing Date	October 12, 2005		
STATEMENT BY APPLICANT				First Named Inventor	Mills		
				Group Art Unit	Unknown		
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Examiner Initials*  OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS  Examiner Initials*  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), yolume-issue number(s).						
nitials*	No. 1	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>			
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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Letter from Shelby T. Brewer to The Honorable James E. Rogan, December 21, 2001 and PTO response from Jason C. Roe, April 24, 2002 (see Attachment A)	
		PARK, "Patent Nonsense, Court Denies Blacklight Power Appeal", What's New, September 6, 2002, www.aps.org.WN/WN02/wn090602.html (see Attachment C)	
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

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Examiner Initials*	Cite No.							
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		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Tom Stolper, November 10, 2003 (see Attachment H)						
		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Peter Zimmerman and Tom Stolper, October 29, 2003 (see Attachment H)						
		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Tom Stolper, October 28, 2003 (see Attachment H)						
		Internet Discussion Forum, "HSG: Even skeptics can lose objectivity", Transcript from Steve Menton, October 26, 2003 (see Attachment H)						
		Internet Discussion Forum, "HSG: Zimmerman's Insincere Questions", Transcript from Peter Zimmerman and Steve Menton, September 25, 2003 (see Attachment H)						
		Internet Discussion Forum, "Re: Re: Zero Electrostatic Self-Interaction Justified", Transcript from Peter Zimmerman, May 22, 2003 http:groups.yahoo.com/group/hydrino/message/6052 (see Attachment H)						
		Internet Discussion Forum, "HSG: Re: Bool Review by Dr. John Farrell", Transcript from Peter Zimmerman, February 23, 2004 (see Attachment H)						
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		PARK, "Perpetual Motion: Still Going Around", Special to the Washington Post, January 12, 2000, Page H03 (see Attachment J)						
		Letter from Jeffrey S. Melcher to Ms. Esther Kepplinger with Attachments A-E, January 19, 2001(see Attachment K)						
		PLATT, "Testing the Current", The Washington Post, June 25, 2000, Page X05 (see Attachment M)						
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		Letter from Senator Ron Wyden to The Honorable Todd Q. Dickinson with attachments, April 5, 2000 (see Attachment O)						
		Letter from Senator Robert G. Torricelli to Nicholas P. Godici with attachments, July 20, 2001(see Attachment O)						
		Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)						
		Letter from Senator Max Cleland to Ms. Jane Cooksey with attachments, March 24, 2000 (see Attachment O) Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)						
		Letter from Senators Max Cleland and Ron Wyden to The Honorable Donald L. Evans, December 20, 2001; Letter from Senators Jon S. Corzine and Robert G. Torricelli to The Honorable Donald L. Evans, December 21, 2001 (see Attachment O)						
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		Letter from Elizabeth Barlow to John Allen, March 17, 2004 (see Attachment R)						
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		Souw, Bernard, "Coherent Telescope array with self-homodyne interferometric detection for optical communications," Opt. Eng. 42(11) 3139-3157 (Nov. 2003); U.S. Department of Commerce, Summary of Ethics Rules, USPT, 2000; October 15, 2004 E-mail to Examiner Wayner (Attachment S)						
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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS						
Examiner Cite Initials* No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examiner Cite No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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		K.L. Ross, "Kantian Quantum Mechanics", < http://www.fresian.com/space-2.htm>				

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

Substitute for form 1449B/PTO	Complete if Known		
,	Application Number	10/552,585	
INFORMATION DISCLOSURE	Filing Date	October 12, 2005	
STATEMENT BY APPLICANT	First Named Inventor	Mills	
	Group Art Unit		
(use as many sheets as necessary)	Examiner Name		
71 of 71	Attorney Docket Number	62226-Pulsed	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	·r	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
		Quantum Physics 301, Paradoxes and Interpretation", <a href="http://www.teachphy.brisac.uk/Level30100/CourseMaterials/paradoxes.pdf">http://www.teachphy.brisac.uk/Level30100/CourseMaterials/paradoxes.pdf</a>		
		The Internet Encyclopedia of Philosophy, "Logical Positivism", <a href="http://iep.utm.edu/logpos.htm">http://iep.utm.edu/logpos.htm</a>		
		H. G. Kuhn, F. R. S., "Atomic Spectra", Longmans, Green & Co., Ltd., London/Harlow 1969 (2 <sup>nd</sup> ed.).		
		Anthony J. Marchese, Ph. D., Peter Jansson, Ph. D., P.E., John I. Schmalzel, Ph. D., P.E., "The Blacklight Rocket Engine", NIAC Phase 1 Final Report (May 1-November 30, 2002). <a href="https://www.niac.usra.edu/files/studies/final_report/">www.niac.usra.edu/files/studies/final_report/</a>		
		"Average Molecular Kinetic Energy", < http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/molke.html>		
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		Peter D. Zimmerman, "An Analysis of Theoretical Flaws in So-Called Classical Quantum Mechanics and of Experimental Evidence Against CQM" (2001)		
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		Mills, R., "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States," (web publication June 9, 2004 at www.blacklightpower.com)		

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